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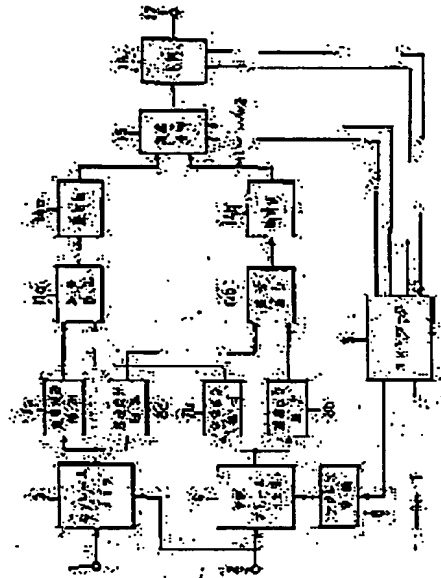
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## (54) METHOD AND DEVICE FOR DETECTING MOTION VECTOR

## (57)Abstract

**PURPOSE:** To reduce the arithmetic operation quantity and to preclude the possibility of mis-detection when a motion vector is detected by the block matching method.

**CONSTITUTION:** A size of a motion vector detection object block is selected to be  $16 \times 16$  and divided into small blocks in a size  $4 \times 4$  by a small block processing circuit. A steady-state component is extracted by a circuit 7a for each small block comprising  $4 \times 4$  picture elements and a transient component is extracted by a circuit 8a. The steady-state component and the transient component are extracted for each block as to data of a reference data. A difference of the steady-state component and the transient component is detected respectively and an evaluation value is formed by applying weight-means to accumulated absolute differences. A motion vector is detected based on the evaluation value.



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2/6